

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|---|------------------|---------|------------------|
| | | S53 and (pair dual multi\$5 two second couple plurality) near3 (wire string filament) | US-PGPUB; USPAT; USOCR | OR | ON | 2005/01/04 11:10 |
| | | S53 and (pair dual multi\$5 two second couple plurality) near3 (wire string filament) | US-PGPUB; USPAT; USOCR | OR | ON | 2005/01/04 11:10 |
| | | S33 and ((vibrat\$5) near3 (sens\$4 evaluat\$5 estimat\$5 cell rate comput\$5 detect\$4 test\$4 meter gauge transducer measur\$4 indicat\$4 identif\$4 monitor\$4 determina\$4))". | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/04 11:12 |
| L4 | 2260 | wrench near4 (electr\$6 torque digital).ab. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/05 09:59 |
| L5 | 30 | 4 and (vibrat\$5 oscillat\$5 driv\$5) near6 (wire string) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/05 10:03 |
| L6 | 1 | 5 and ((force stress strain load pressure) near3 (sens\$4 evaluat\$5 estimat\$5 cell rate comput\$5 detect\$4 test\$4 meter gauge transducer measur\$4 indicat\$4 identif\$4 monitor\$4 determina\$4)). clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/05 10:01 |
| L7 | 1 | 6 and (light diode photo\$6 optical) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/05 10:03 |
| L8 | 77 | 4 and ((force stress strain load pressure) near3 (sens\$4 evaluat\$5 estimat\$5 cell rate comput\$5 detect\$4 test\$4 meter gauge transducer measur\$4 indicat\$4 identif\$4 monitor\$4 determina\$4)). clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/05 11:01 |
| L9 | 44 | 8 and (light diode photo\$6 optical) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/05 10:03 |
| L10 | 37 | 9 and (vibrat\$5 oscillat\$5 driv\$5) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/05 10:03 |

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| L11 | 1 | 9 and (vibrat\$5 oscillat\$5 driv\$5) near8 (wire string) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/05 10:03 |
| L12 | 109654 | ((force stress strain load pressure) near3 (sens\$4 evaluat\$5 estimat\$5 cell rate comput\$5 detect\$4 test\$4 meter gauge transducer measur\$4 indicat\$4 identif\$4 monitor\$4 determina\$4)).clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/05 11:02 |
| L13 | 1449 | 12 and (tension\$5 stretch\$5 elongate) near7 (string wire) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/05 11:04 |
| L14 | 1203 | 12 and (tension\$5 stretch\$5 elongate) near4 (string wire) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/05 11:04 |
| L15 | 420 | 14 and (vibrat\$5 oscillat\$5 driv\$5).clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/05 11:04 |
| L16 | 153 | 14 and ((vibrat\$5 oscillat\$5 driv\$5) near6 (wire string)).clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/05 11:05 |
| L17 | 78 | 16 and \$7magnet\$6 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/05 11:06 |
| L18 | 31 | 17 and (optical photomicrosensor "photo-microsensor" diode photo\$7) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/05 11:07 |
| L19 | 40 | 17 and (optical light photomicrosensor "photo-microsensor" diode photo\$7) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/05 11:07 |
| L20 | 10 | 17 and (optical light photomicrosensor "photo-microsensor" diode photo\$7).clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/05 11:08 |
| L21 | 6 | 20 and frequenc\$6.clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/05 11:08 |
| L22 | 16 | ("2306137" "3052116" "3224279" "3310978" "3403548" "3871217" "4567451" "4841256" "4955238" "5316562" "5381005").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/01/05 11:13 |

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| L23 | 4 | ("5563348").URPN. | USPAT | OR | ON | 2005/01/05 11:24 |
| L24 | 1 | ("3712395").PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/01/05 11:24 |
| L25 | 21 | ("3712395").URPN. | USPAT | OR | ON | 2005/01/05 11:29 |
| L26 | 21 | ("3712395").URPN. | USPAT | OR | ON | 2005/01/05 11:33 |
| L27 | 5 | ("3185232" "3683697" "3692128" "3712395").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/01/05 11:33 |
| L28 | 4 | ("3788134").URPN. | USPAT | OR | ON | 2005/01/05 11:34 |
| S1 | 15 | ((("6450032") or ("3470400") or ("4215570") or ("4479391") or ("5574220") or ("5596145"))).PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/01/04 11:04 |
| S2 | 17182 | (73/488-551,862.59-862.69, 760-779).CCLS. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/01/03 11:20 |
| S3 | 1504 | S2 and (differential change compar\$5) near6 (frequency vibrat\$6 repeat repetition cycle) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/03 10:57 |
| S4 | 4 | S1 and (differential change compar\$5) near6 (frequency vibrat\$6 repeat repetition cycle) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/03 10:36 |
| S5 | 1 | S1 and (cantilever beam plate bar) and wire and (driv\$5 oscillat\$5 vibrat\$6 solenoid) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/03 10:53 |
| S6 | 4 | ("3238789" "4215570" "4221131").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/01/03 10:44 |
| S7 | 8 | ("4479391").URPN. | USPAT | OR | ON | 2005/01/03 10:51 |
| S8 | 1128 | S2 and (cantilever beam plate bar) and wire and (driv\$5 oscillat\$5 vibrat\$6 solenoid) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/03 10:57 |
| S9 | 182 | S8 and ((vibrat\$5) near3 (sens\$4 evaluat\$5 estimat\$5 cell rate comput\$5 detect\$4 test\$4 meter gauge transducer measur\$4 indicat\$4 identif\$4 monitor\$4 determina\$4)).clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/05 10:00 |
| S10 | 128 | S9 and (differential change compar\$5) near6 (frequency vibrat\$6 repeat repetition cycle) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/03 10:57 |

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| S11 | 25 | S9 and ((differential change compar\$5) near6 (frequency vibrat\$6 repeat repetition cycle)).clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/03 11:20 |
| S12 | 8 | S11 and (vibrat\$5 near4 wire) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/03 11:07 |
| S13 | 6 | (differential and wire and vibrat\$5 and transducer).ab. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/03 11:08 |
| S14 | 2 | ("4372164").PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/01/03 11:19 |
| S15 | 156 | S2 and (vibrat\$5) near6 wire | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/03 11:20 |
| S16 | 7 | S15 and ((differential change compar\$5) near4 (frequency repetition cycle)).clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/03 11:25 |
| S17 | 2 | S15 and ((differential compar\$5) near4 (frequency repetition cycle)).clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/03 13:06 |
| S18 | 9 | ("3683684").URPN. | USPAT | OR | ON | 2005/01/03 11:31 |
| S19 | 463 | S2 and (vibrat\$5 near3 (beam bar)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/03 11:40 |
| S20 | 3138 | S2 and (beam bar) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/03 11:40 |
| S21 | 51 | S20 and (vibrat\$5 near3 wire) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/03 11:41 |
| S22 | 27 | S21 and (driver oscillator modulator vibratory solenoid) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/03 11:42 |
| S23 | 0 | S22 and (differential near3 frequency) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/03 11:42 |

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| S24 | 26 | S22 and (differen\$5) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/03 11:43 |
| S25 | 26 | S22 and (differen\$5 compare) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/03 11:43 |
| S26 | 15 | S22 and (differen\$5 compare) with frequency | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/03 11:43 |
| S27 | 26 | ("2544646" "2974530" "3127775" "3504554" "3789673" "3839915" "4019391" "4264838" "4267731" "4524619" "4538461" "4654663" "4671112" "4674331" "4759220" "4802364" "4836023" "4884446" "4899587" "Re22409" "Re32931").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/01/03 11:48 |
| S28 | 17182 | (73/488-551,862.59-862.69, 760-779).CCLS. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/01/03 12:54 |
| S29 | 1128 | S28 and (cantilever beam plate bar) and wire and (driv\$5 oscillat\$5 vibrat\$6 solenoid) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/03 12:54 |
| S30 | 182 | S29 and ((vibrat\$5) near3 (sens\$4 evaluat\$5 estimat\$5 cell rate comput\$5 detect\$4 test\$4 meter gauge transducer measur\$4 indicat\$4 identif\$4 monitor\$4 determina\$4)).clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/03 12:54 |
| S31 | 25 | S30 and ((differential change compar\$5) near6 (frequency vibrat\$6 repeat repetition cycle)). clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/03 12:54 |
| S32 | 17182 | (73/488-551,862.59-862.69, 760-779).CCLS. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/01/03 13:04 |
| S33 | 73 | S28 and (tension\$5 near3 wire) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/03 13:04 |

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| S34 | 29 | S33 and ((vibrat\$5 near3 (sens\$4 evaluat\$5 estimat\$5 cell rate comput\$5 detect\$4 test\$4 meter gauge transducer measur\$4 indicat\$4 identif\$4 monitor\$4 determina\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/03 13:05 |
| S35 | 7 | S34 and ((differential compar\$5) near4 (frequency repetition cycle)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/03 13:50 |
| S36 | 9 | ("1806741" "3382942" "3423999" "3621713" "3712395").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/01/03 13:08 |
| S37 | 9 | ("3963082").URPN. | USPAT | OR | ON | 2005/01/03 13:09 |
| S38 | 3138 | S28 and (beam bar) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/03 13:17 |
| S39 | 51 | S38 and (vibrat\$5 near3 wire) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/03 13:17 |
| S40 | 27 | S39 and (driver oscillator modulator vibratory solenoid) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/03 13:17 |
| S41 | 4 | ("4074565").URPN. | USPAT | OR | ON | 2005/01/03 13:37 |
| S42 | 9 | ("2604787" "3052116" "3914992" "3935745" "3960009" "4074565" "4165651").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/01/03 13:48 |
| S43 | 441 | S28 and (pair two second couple plurality) near3 (wire string filament) | US-PGPUB; USPAT; USOCR | OR | ON | 2005/01/04 11:09 |
| S44 | 177 | S43 and (beam bar) | US-PGPUB; USPAT; USOCR | OR | ON | 2005/01/03 13:50 |
| S45 | 34 | S44 and ((differential compar\$5) near4 (frequency wire string filament vibrat\$5repetition cycle)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/03 13:51 |
| S46 | 24 | S45 and ((vibrat\$5 force stress strain magnitude) near3 (sens\$4 evaluat\$5 estimat\$5 cell rate comput\$5 detect\$4 test\$4 meter gauge transducer measur\$4 indicat\$4 identif\$4 monitor\$4 determina\$4)).clm. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/03 13:57 |
| S47 | 10 | ("1806741" "2793026" "3382942" "3612198" "3621713" "3712395").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/01/03 14:34 |

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| S48 | 11 | ("3897681").URPN. | USPAT | OR | ON | 2005/01/03 14:35 |
| S49 | 9 | ("1806741" "3382942" "3423999" "3621713" "3712395").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/01/03 14:37 |
| S50 | 9 | ("3963082").URPN. | USPAT | OR | ON | 2005/01/03 14:37 |
| S51 | 10 | "474752" | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/04 11:08 |
| S52 | 0 | (177/210).CCLS. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/01/04 11:08 |
| S53 | 785 | (177/210r).CCLS. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/01/04 11:08 |
| S54 | 27 | S53 and (pair dual multiply "multi" multiplicity two second couple plurality) near3 (wire string filament) | US-PGPUB; USPAT; USOCR | OR | ON | 2005/01/04 11:11 |
| S55 | 11 | S54 and ((vibrat\$5 oscillat\$5) near3 (sens\$4 evaluat\$5 estimat\$5 cell rate comput\$5 detect\$4 test\$4 meter gauge transducer measur\$4 indicat\$4 identif\$4 monitor\$4 determina\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/04 12:27 |
| S56 | 10 | ("2912861" "3062052" "3423999" "3546943" "3583225" "3712395").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/01/04 11:17 |
| S57 | 13 | ("3885427").URPN. | USPAT | OR | ON | 2005/01/04 11:19 |
| S58 | 17186 | (73/488-551,862.59-862.69, 760-779).CCLS. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | OFF | 2005/01/04 12:25 |
| S59 | 17896 | S53 S58 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/04 12:26 |
| S60 | 24 | S53 and (light near3 diode) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/04 12:26 |
| S61 | 60 | S53 and ((light diode photo\$5) near3 (sens\$4 evaluat\$5 estimat\$5 cell rate comput\$5 detect\$4 test\$4 meter gauge transducer measur\$4 indicat\$4 identif\$4 monitor\$4 determina\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/04 12:28 |

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| S62 | 7 | S54 and ((light diode photo\$5) near3 (sens\$4 evaluat\$5 estimat\$5 cell rate comput\$5 detect\$4 test\$4 meter gauge transducer measur\$4 indicat\$4 identif\$4 monitor\$4 determina\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/05 09:58 |
| S63 | 1 | S55 and ((light diode photo\$5) near3 (sens\$4 evaluat\$5 estimat\$5 cell rate comput\$5 detect\$4 test\$4 meter gauge transducer measur\$4 indicat\$4 identif\$4 monitor\$4 determina\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2005/01/04 12:29 |